

Filename: PMP6594_REVB_bom.xls

Date: March 23, 2011

updates in bold red

PMP6594_REVB BOM

COUNT	RefDes	VALUE	Description	Size	Part Number	MFR
4	C10 C15 C20-21	470pF	Capacitor, Ceramic, 50V, X7R, 15%	402		
	C101-103 C201-203 C301-					
12	303 C401-403	10uF	Capacitor, Ceramic, 10uF, 25V, X5R, 20%	1210	std	std
4	C107 C207 C307 C407	100pF	Capacitor, Ceramic, 50V, X7R, 15%	402		
4	C110 C210 C310 C410	10uF	Capacitor, Ceramic, 6.3V, X5R, 20%	805	GRM40yyyxxxKvv	muRata
4	C111 C211 C311 C411	0.33uF	Capacitor, Ceramic, 16V, X5R, 15%	402	std	std
4	C112 C212 C312 C412	1.5nF	Capacitor, Ceramic, 100V, X7R, 15%	805	std	std
	C114-115 C214-215 C314-					
8	315 C414-415	330uF	Capacitor, Aluminum, SMT, 2V, 7mOhms, 20%	7343(D)	EEFSD0D331R	Panasonic
	C116-117 C216-217 C316-					
8	317 C416-417	47uF	Capacitor, Ceramic, 47uF, 16V, X5R	1210	GRM32ER61C476KE15	Murata
3	C1-3	470uF	Capacitor, Aluminum, 16V, 105 deg C, 20%	0.315 inch	16ZLG470M10x12.5	Rubycon
3	C14 C17 C26	4.7uF	Capacitor, Ceramic, 10V, X5R, 20%	603	GRM39yyyxxxKvvvA	muRata
1	C151	0.22uF	Capacitor, Ceramic, 25V, X7R, 15%	603	GRM39yyyxxxKvvvA	muRata
2	C152-153	0.1uF	Capacitor, Ceramic, 50V, X7R, 15%	603	GRM39yyyxxxKvvvA	muRata
1	C154	1uF	Capacitor, Ceramic, 25V, X5R, 20%	603	Std	Std
1	C155	10uF	Capacitor, Ceramic, 6.3V, X5R, 20%	805	Std	Std
	C25 C108 C113 C208 C213					
9	C308 C313 C408 C413	1uF	Capacitor, Ceramic, 6.3V, X5R, 20%	402		
1	C36	DNP	Capacitor, Ceramic, Low Inductance, vvV, [temp], [tol]	603		muRata
	C4 C18-19 C23-24 C27-35					
	C104-106 C109 C204-206					
	C209 C304-306 C309 C404-					
30	406 C409	0.1uF	Capacitor, Ceramic, 16V, X7R, 15%	402	GRM155R71C104KA88	Murata
10	C5-9 C11-13 C16 C22	0.01uF	Capacitor, Ceramic, 50V, X7R, 15%	402		
1	C601	22uF	Capacitor, Ceramic, 16V, X7R, 20%	1210	Std	std
1	C602	1.0uF	Capacitor, Ceramic, 1.0-uF, 25-V, X7R, 10%	603	C1608X7R1E105K	TDK
1	C603	10pF	Capacitor, Ceramic, 10-pF, 50-V, C0G, 10%	603	Std	TDK
1	C604	22 uF	Capacitor, Ceramic, 22-uF, 16-V, X7R, 20%	1210	C3225X7R1C226M	TDK
	D101 D153-154 D201 D301					
6	D401	MBR0530TxG	Diode, Schottky, 0.5A, 30V	SOD-123	MBR0530TxG	On Semi

1	D151	BAT54	Diode, Schottky, 200-mA, 30-V	SOT23	BAT54-V-GS08	Vishay-Liteon
1	D152	RED	Diode, LED, Red Clear, 20mcd	0.079 X 0.049 0.40 x 0.35 inch	LTST-C170CKT	Lite On
5	J1 J101 J201 J301 J401	ED120/2DS	Terminal Block, 2-pin, 15-A, 5.1mm	0.338 x 0.788 inch	ED120/2DS	OST
1	J2	AWHW10G-0202-T-R	Connector, Male Straight 2x5 pin, 100mil spacing, 4 Wall Header, Male 2x15-pin, 100mil spacing (36-pin strip), Right-Angle	0.100 inch x 15 x 2	AWHW10G-0202-T-R	Assmann Electronics
1	J3	PTC30DBBN		1.000 x 0.354 inch	PEC30DBBN	Sullins
4	J4 J6-8 J5 J102 J151 J202 J302	ED120/5DS	Terminal Block, 5-pin, 15-A, 5.1mm		ED120/5DS	OST
6	J402	PEC02SAAN	Header, Male 2-pin, 100mil spacing,	0.100 inch x 2	PEC02SAAN	Sullins
1	J601	ED1609-ND	Terminal Block, 2-pin, 15-A, 5.1mm	0.40 x 0.35 0.41 x 0.25 inch	ED1609	
1	J9	ED555/3DS	Terminal Block, 3-pin, 6-A, 3.5mm	0.400 x 0.453 inch	ED555/3DS	OST
4	L101 L201 L301 L401	0.36uHy	Inductor, SMT, 30A, 1.2milliohm	0.276 sq	PCMB104T-R36MT	Susumu
1	L601	6.8uH	Inductor, SMT, 6.8-uH, 1.6-A, 49.2-milliohm	QFN5X6mm	SLF7032T-6R8M1R6	TDK
1	Q151	CSD16407Q5	MOSFET, NChan, 25V, 31A, 2.5 milliOhm	603	CSD16407Q5	TI(Ciclon)
2	R1 R45	0.2	Resistor, Chip, 1/16W, 5%		CRCW0603-xxx-J	Vishay
12	R10-13 R104-105 R204-205					
	R304-305 R404-405	2.49k	Resistor, Chip, 1/16W, 1%	402	Std	Std
4	R102 R202 R302 R402	20k	Resistor, Chip, 1/16W, 1%	402	Std	Std
4	R106 R206 R306 R406	7.5k	Resistor, Chip, 1/16W, 1%	402	Std	Std
4	R108 R208 R308 R408	2	Resistor, Chip, 1/16W, 5%	402	Std	Std
4	R109 R209 R309 R409	1	Resistor, Chip, 1/2W, 5%	2010	Std	Std
4	R111 R211 R311 R411	open	Resistor, Chip, 1/16W, 1%	402	Std	Std
8	R112-113 R212-213 R312-313 R412-413	1	Resistor, Chip, 1/16W, 5%	402	Std	Std
1	R151	8.06k	Resistor, Chip, 1/16W, 1%	603	CRCW0603-xxxx-F	Vishay
1	R152	100k	Resistor, Chip, 1/16W, 1%	603	CRCW0603-xxxx-F	Vishay
1	R153	10k	Resistor, Chip, 1/16W, 1%	603	CRCW0603-xxxx-F	Vishay
1	R154	331	Resistor, Chip, 1/16W, 1%	603	CRCW0603-xxxx-F	Vishay
2	R155 R160	10	Resistor, Chip, 1/16W, 5%	603	CRCW0603-xxx-J	Vishay
3	R156-158	0.05	Resistor, Chip, 1W, 5%	2512	Std	Std
1	R159	0.005	Resistor, Chip, 1W, 5%	2512	Std	Std
3	R161-163	DNP	Resistor, Chip, 1W, 5%	2512	Std	Std

1	R17	63.4k	Resistor, Chip, 1/16W, 1%	402	Std	Std
4	R19 R21 R23 R43	1k	Resistor, Chip, 1/16W, 1%	402	Std	Std
4	R53-56	499	Resistor, Chip, 1/16W, 1%	402	Std	Std
2	R2 R5	133k	Resistor, Chip, 1/16W, 1%	402	Std	Std
	R20 R22 R25 R27-28 R39					
7	R41	100k	Resistor, Chip, 1/16W, 1%	402	Std	Std
5	R26 R37-38 R42 R44	10	Resistor, Chip, 1/16W, 5%	402	Std	Std
1	R3	78.7k	Resistor, Chip, 1/16W, 1%	402	Std	Std
1	R36	1 M	Resistor, Chip, 1/16W, 1%	402	Std	Std
1	R4	56.2k	Resistor, Chip, 1/16W, 1%	402	Std	Std
4	R40 R46-48	51	Resistor, Chip, 1/16W, 5%	402	Std	Std
1	R6	169k	Resistor, Chip, 1/16W, 1%	402	Std	Std
6	R601-602 R604-606 R608	1.00M	Resistor, Chip, 1.00M-Ohms, 1/16-W, 1%	603	Std	Std
1	R603	261k	Resistor, Chip, 261k-Ohms, 1/16-W, 1%	603	Std	Std
1	R607	51	Resistor, Chip, 1/16W, 5%	603	Std	Std
1	R609	232k	Resistor, Chip, 1/16-W, 1%	603	Std	Std
	R7-8 R18 R24 R29-31 R65-70 R75-78 R83-86 R101 R110 R201 R210 R301					
29	R310 R401 R410	10k	Resistor, Chip, 1/16W, 1%	402	Std	Std
4	R32-35	DNP		402		
	R49-52 R71-74 R79-82 R87-					
16	90	2k	Resistor, Chip, 1/16W, 1%	402	Std	Std
4	R9 R14-16	17.8k	Resistor, Chip, 1/16W, 1%	402	Std	Std
	R91-94 R103 R203 R303					
8	R403	2k	Resistor, Chip, 1/16W, 1%	402	Std	Std
1	R95	200k	Resistor, Chip, 1/16W, 1%	402	Std	Std
5	R99 R107 R207 R307 R407	0	Resistor, Chip, 1/16W, 5%	402	Std	Std
	RT101 RT201 RT301					
4	RT401	100k	Thermistor, SMT, NTC ±5%	402	NCP15WF104F03RC	Murata
	RT102 RT202 RT302					
4	RT402	DNP	Thermistor, SMT, NTC ±5%	402	NCP15WF104F03RC	Murata
				0.38 x 0.40		
1	S1	76SB04T	Switch, 4-pole DIP, Raised Rocker	inch	76SB04T	Grayhill
				0.394 x 0.260		
1	S5	KSC221J	Switch, Momentary, Sealed Tact, 32V, 50mA	inch	KSC221J	ITT

1	TH8		Thru Hole, 15 mil, plated				
10	TP102 TP105 TP153 TP202 TP205 TP302 TP305 TP402 TP405 TP605	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone	
4	TP103 TP203 TP303 TP403 TP11 TP101 TP104 TP201 TP204 TP301 TP304 TP401 TP404 TP601-604	5015	Test Point, SMT	0.105 x 0.040 inch	5015	Keystone	
13		5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone	
4	TP1-4	5016	Test Point, SM, 0.150 x 0.090	0.185 x 0.135 inch	5016	Keystone	
2	TP151-152	5002	Test Point, White, Thru Hole Color Keyed	0.100 x 0.100 inch	5002	Keystone	
1	U1	UCD9244RGC	IC, Digital PWM System Controller	QFN-64	UCD9244RGC	TI	
4	U101 U201 U301 U401	UCD74110RVF	IC, High Current High Performance Itellimos	QFN40	UCD74110RVF	TI	
1	U151	TLC555CD	IC, Timer, Low-Power CMOS	SO8	TLC555CD	TI	
1	U152	UCC37324DR	IC, Dual 4-A High Speed Low-Side Power MOSFET Drivers	SO-8	UCC37324DR	TI	
1	U2	TPS76933DBV	IC, Ultralow-Power 100 mA LDO Regulator	SOT23-5	TPS76933DBV	TI	
4	U3 U6-8	SN74AVCH4T245 RSV	IC, 4-Bit Dual -Supply Bus Transceiver	QFN-16	SN74AVCH4T245RSV	TI	
1	U4	PCA9306DCUR	IC, Dual Bidirectional I ² C and SMBus Voltage Level Translator	VSSOP-8	PCA9306DCUR	TI	
1	U5	TPS76901DBV	IC, Ultralow-Power 100 mA LDO Regulator	SOT23-5	TPS76901DBV	TI	
1	U601	TPS62110RSA	IC, Synchronous Step-Down Converter, 17V, 1.5A	QFN-16	TPS62110RSA	TI	

- Notes:
1. These assemblies are ESD sensitive, ESD precautions shall be observed.
 2. These assemblies must be clean and free from flux and all contaminants.
Use of no clean flux is not acceptable.
 3. These assemblies must comply with workmanship standards IPC-A-610 Class 2.
 4. Ref designators beginning with Q or U unless otherwise noted cannot be substituted.
All other components can be substituted with equivalent MFG's components.

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